

**State of California  
AIR RESOURCES BOARD**

Summary of Board Meeting  
April 20, 2006

Long Beach Convention & Entertainment Center  
300 East Ocean Boulevard  
Seaside Ballroom  
Long Beach, California

MEMBERS PRESENT:     Robert F. Sawyer, Ph.D., Chair  
                                 Henry Gong Jr., M.D.  
                                 Ms. Lydia Kennard  
                                 Mr. Ronald Loveridge  
                                 Ms. Barbara Patrick  
                                 Mrs. Barbara Riordan  
                                 Mr. Ronald Roberts

AGENDA ITEM#

**06-4-1:                    Health Update: Nitrogen Dioxide Exposure Increases  
                                 Allergic Asthmatic Responses**

SUMMARY OF AGENDA ITEM:

Staff updated the Board on a recently published study that provides new evidence that nitrogen dioxide can exacerbate asthma. The study examined young adult asthmatics after controlled exposures to nitrogen dioxide and an allergen or filtered air and an allergen over three days. The results suggest nitrogen dioxide interacts with allergens to increase allergic responses in the lungs of asthmatics. This is a biologically plausible explanation for epidemiologic findings, such as hospital and emergency room visits and increased medication use. ARB and OEHHA staff has evaluated the scientific literature on nitrogen dioxide as part of reviewing the current State ambient air quality standard for nitrogen dioxide. This study contributed to staff's conclusion that the existing California standard has no margin of safety and should be revised.

ORAL TESTIMONY: None

FORMAL BOARD ACTION: None (Informational Item)

RESPONSIBLE DIVISION: Research Division

STAFF REPORT: No

**06-4-2: Research Proposals**

SUMMARY OF AGENDA ITEM:

The Board considered the following two research proposals.

1. "Characterization of Ventilation Rates and Indoor Environmental Quality (IEQ) on Small Commercial Buildings," University of California, Berkeley, \$570,000, Proposal No. 5608-251.
2. "Effects of Inhaled Fine Particles on Lung Growth and Lung Disease," University of California, Irvine, \$420,446, Proposal No. 2609-251.

ORAL TESTIMONY: None

FORMAL BOARD ACTION: Approved Resolution Numbers 06-12 and 06-13.

RESPONSIBLE DIVISION: Research Division

STAFF REPORT: No

**06-4-3: Public Meeting to Consider the Emission Reduction Plan for Ports and Goods Movement in California**

SUMMARY OF AGENDA ITEM:

The ships, trains, trucks and cargo handling equipment that move international and domestic goods through California generate a substantial amount of air pollution. ARB staff developed the Emission Reduction Plan for Ports and Goods Movement in California (plan) to identify and initiate specific actions to reduce these emissions and protect public health.

The staff presentation explained how the plan relates to other ARB initiatives. Staff also discussed its linkage to the

broader Goods Movement Action Plan being developed by the California Environmental Protection Agency and the Business, Transportation & Housing Agency.

Staff estimates that current emissions from goods movement activities cause approximately 2,400 premature deaths annually. The number of annual premature deaths is projected to decline 1,500 by year 2020, despite growth, in response to existing controls and the proposed plan.

Staff identified potential strategies to reduce emissions from the five main sources of goods movement emissions: ships, commercial harbor craft, cargo handling equipment, trucks and locomotives. The basic mechanisms include regulations, incentive programs, lease agreements, careful land use decisions and voluntary actions. The four pollutants targeted by the plan are diesel particulate matter (diesel PM), oxides of nitrogen (NOx), reactive organic gases (ROG), and sulfur oxides (SOx).

Fully implementing the plan will reduce statewide emissions from goods movement well below 2001 levels by 2010. The statewide health risk from diesel PM will be reduced 85% by 2020. The plan also supports attainment of the federal air quality standards for particulate and ozone. The plan will significantly reduce localized risk in communities near ports, rail yards and high traffic corridors, but does not eliminate this risk. Staff proposed a public process to identify additional strategies to further reduce localized risk in these communities.

The estimated, cumulative cost to implement the plan is \$6-10 billion between 2006 and 2020. For every dollar invested three to eight dollars in economic benefits would be realized in the form of avoided, adverse health effects.

The Board heard oral testimony from nearly 50 witnesses representing communities impacted by goods movement, environmental organizations, local governments and air districts, affected industries, dockworker unions and others. The vast majority of witnesses recognized the substantial health impacts from goods movement-related air pollution and supported Board approval of the plan.

## ORAL TESTIMONY:

Dave Beeman, ILWU Local Union 13  
Jack Broadbent, Bay Area AQMD  
Sandy Cajas, Regional Hispanic Chamber of Commerce  
Todd Campbell, Clean Energy  
Richard Cassman, Long Beach Unified School District  
Stephen Clark, SSAT Marine  
Kim Craft, IBEW Local Union 11  
Lena Maun-DeSantis, Port of Los Angeles  
Terry Dressler, California Air Pollution Control Officers  
Association and Santa Barbara County APCD  
Mike Eaves, California Natural Gas Vehicle Coalition  
Sean Edgar, Clean Fleets Coalition  
Mayor Larry Forester, City of Signal Hill  
T.L. Garrett, Pacific Merchant Shipping Association  
Elina Green, Long Beach Alliance for Children with Asthma  
Peter Greenwald, South Coast AQMD  
Janet Gunter, San Pedro Resident  
Larry Henderson, IBEW Local Union 11  
Bob Hoffman, Dock Watts, LLC  
Bonnie Holmes-Gen, American Lung Association  
Andrea Hricko, University of Southern California  
Fran Inman, Majestic Reality  
Ellen Johnck, Bay Planning Coalition of San Francisco Bay  
Tom Jordan, San Joaquin Valley APCD  
Robert Kanter, Port of Long Beach  
Gordana Kidrpeoglou, Coalition for a Safe Environment and  
American Civil Liberties Union  
Marisela Knott, Commerce Resident  
Patty Krebs, Industrial Environmental Association  
Joe Lyuu, California Environmental Rights Alliance  
Marie Malahi, Coalition for a Safe Environment  
Kirk Marckwald, Association of American Railroads  
Jesse Marquez, Coalition for a Safe Environment  
Julie Masters, Natural Resources Defense Council  
John Miller, M.D.  
Bry Myown, Long Beach Citizens for Utility Reform  
Danial Nord, San Pedro Resident  
Frank O'Brien, Port of Los Angeles Citizens Advisory  
Committee/Air Quality  
Noel Park, San Pedro & Peninsula Homeowners Coalition  
Roy Perez, California Hispanic Chamber of Commerce  
Cathy Reheis-Boyd, Western States Petroleum Association  
Dawn Sanders, California Manufacturers & Technology  
Association

Martin Schlageter, Coalition for Clean Air  
Julia Scoville, Coalition for a Safe Environment  
Lupe Valdez, Union Pacific Railroad  
Elizabeth Warren, FuturePorts  
Stephanie Williams, California Trucking Association  
Kathleen Woodfield, San Pedro & Peninsula Homeowners  
Coalition  
David Wright, Pacific Energy Partners  
Robert Wyman, Maritime Goods Movement Coalition

**FORMAL BOARD ACTION:**

The Board unanimously approved the proposed goals, the overall emission reduction strategy and the list of near-term action items in the plan and staff presentation. The Board also directed staff to report back in late 2006 and every six months thereafter on progress in implementing the plan.

**RESPONSIBLE DIVISION:** Planning and Technical Support Division

**STAFF REPORT:** Yes